# CASE NUMBER: 15SN0605 APPLICANT: Robert Steele, President Board of Trustees



## STAFF'S ANALYSIS AND RECOMMENDATION

**Planning Commission (CPC)** 

**Public Hearing Date:** 

JANUARY 20, 2015

**CPC Time Remaining:** 

100 DAYS

**Applicant's Agent:** 

JOSIE LODDER

(704-560-1422)

**Applicant's Contact:** 

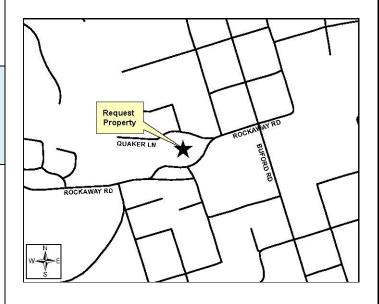
ROBERT STEELE

(840-272-8745)

**Planning Department Case Manager:** 

RYAN RAMSEY (804-768-7592)

## CHESTERFIELD COUNTY, VIRGINIA Magisterial District: MIDLOTHIAN



## **APPLICANT'S REQUEST**

Conditional use to permit a communications tower (data node antenna) in a Residential (R-15) District).

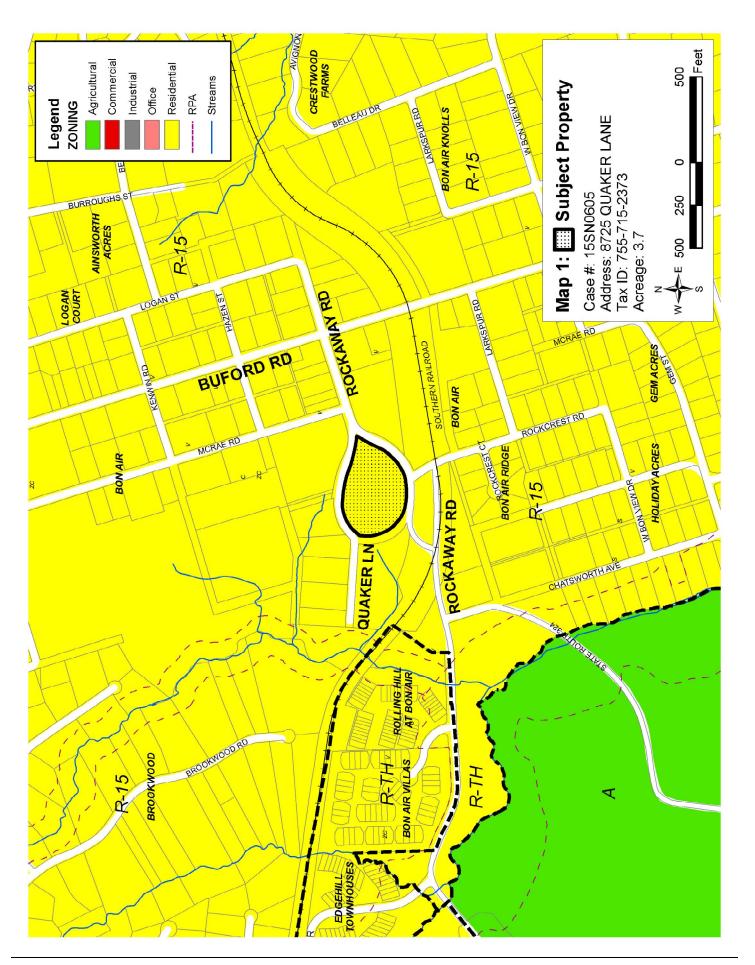
An antenna (data node/small cell) mounted on existing recreational light pole is planned.

(NOTES: A. Conditions may be imposed or the property owner may proffer conditions.

B. Under the Federal Telecommunications Act, localities cannot regulate cell towers on the basis of possible health or environmental effects of radio frequency emissions.)

RECOMMENDATION			
STAFF	<ul> <li>RECOMMEND APPROVAL</li> <li>Complies with Comprehensive Plan</li> <li>Consistent with Telecommunications Tower Siting Policy criteria</li> </ul>		

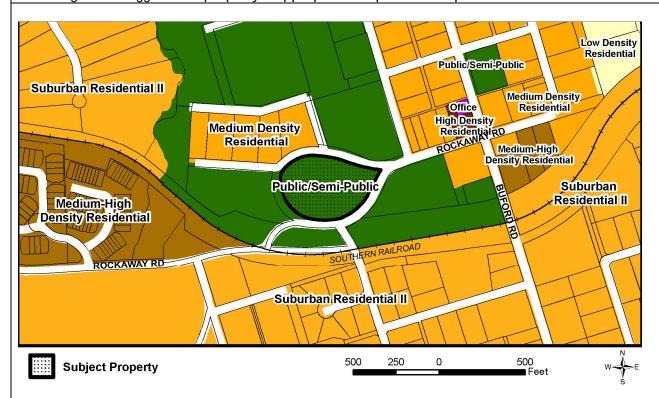
SUMMARY OF IDENTIFIED ISSUES		
Department	Issue	
PLANNING	-	
FIRE	-	
CDOT	-	
VDOT	-	
UTILITIES	-	
ENVIRONMENTAL ENGINEERING	-	



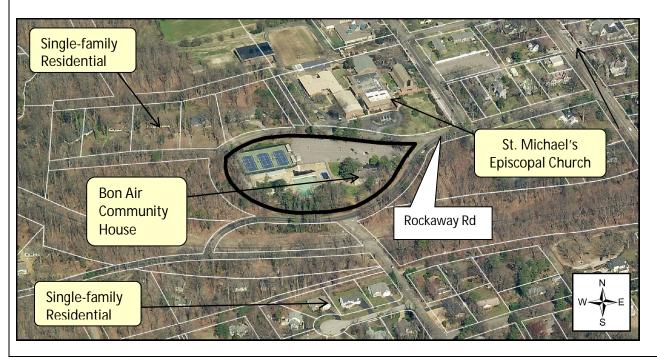
## Map 2: Comprehensive Plan (The Bon Air Community Plan)

Classification: PUBLIC/SEMI-PUBLIC

The designation suggests the property is appropriate for public/semi-public uses.



Map 3: Surrounding Land Uses & Development



#### **PLANNING**

Staff Contact: Ryan Ramsey (804-768-7592) ramseyrp@chesterfield.gov

#### **PROPOSAL**

An antennae (data node/small cell) mounted to an existing recreational light pole within the Bon Air Community House complex is planned.

This proposal consists of a cylindrical antenna, approximately fifteen (15) inches in diameter and two (2) feet in height, top-mounted onto a five (5) foot mast on the top of a recreational light pole. To minimize visibility, the antenna will be painted to match the utility pole. (Proffered Condition 2.b.)

#### **PUBLIC FACILITIES PLAN**

The Public Facilities Plan, an element of the Comprehensive Plan, encourages:

- co-location on existing telecommunications towers, or
- architectural incorporation into existing building features

Where co-location or architectural incorporation is not feasible, in areas designated for residential development, the <u>Plan</u> suggests that towers should be located and designed to conceal these facilities to the greatest degree feasible and minimize their visual impact.

#### **TOWER SITING POLICY**

The Policy establishes guidelines for design, setbacks and security. Elements of the Policy applicable to the proposal are as follows:

- Prohibits signs, except as required by state or federal guidelines
- Provides for screening of ground mounted equipment
- Requires certification of structural integrity
- Requires removal when communications use ceases for more than twelve (12) consecutive months

The following provides an overview of proffered conditions to mitigate the impact of the tower on area properties:

General Overview		
Requirements	Details	
Signage	Not permitted, unless otherwise required by applicable (federal or state) law     Proffered Condition 1     Policy	
Location, Design, Color and Lighting	<ul> <li>Located on existing light pole, as shown on Attachment 2</li> <li>Designed as shown on Attachment 3</li> <li>Painted to match recreational light pole</li> <li>Lighting not permitted         Proffered Condition 2 Plan and Ordinance     </li> </ul>	
Screening	Mechanical equipment screened per ordinance     Proffered Condition 3     Policy	
Structural Integrity	Provide certification prior to use     Proffered Condition 4     Policy	
Height	Not to exceed 35 feet     Proffered Condition 5	
Removal	Required if use ceases for more than 12 consecutive months      Proffered Condition 6     Policy	

As proffered, the proposed communications tower complies with the <u>Comprehensive Plan</u> and is consistent with the <u>Telecommunications Tower Siting Policy</u> and Ordinance criteria.

## **PUBLIC FACILITIES**

## **FIRE SERVICE**

Staff Contact: Greg Smith (804-706-2012) smithgd@chesterfield.gov

Nearby Fire and Emergency Medical Service (EMS) Facilities	
Fire Station	The Buford Fire Station, Company Number 9
EMS Facility	The Forest View Volunteer Rescue Squad

When the property is developed, the number of hydrants, quantity of water needed for fire protection, and access requirements will be evaluated during the plans review process.

## COUNTY DEPARTMENT OF TRANSPORTATION

Staff Contact: Jim Banks (804-748-1037) banksj@chesterfield.gov

The <u>Comprehensive Plan</u>, which includes the <u>Thoroughfare Plan</u>, identifies county-wide transportation needs that are expected to mitigate traffic impacts of future growth. The anticipated traffic impact of the proposal has been evaluated and it is anticipated to be minimal.

## **VIRGINIA DEPARTMENT OF TRANSPORTATION**

Staff Contact: Brian Lokker (804-674-2384) brian.lokker@vdot.virginia.gov

VDOT Land Use Regulations		
Traffic Impact Analysis (24VAC30-155)	-	
Access Management (24VAC30-73)	-	
Subdivision Street Acceptance (24VAC30-91/92)	-	
Land Use Permit (24VAC30-151)	-	
Summary	VDOT has no comment on this case.	

## **COUNTY COMMUNICATIONS**

Staff Contact: Robert Vest (804-717-6950) vestr@chesterfield.gov

The system installation may be approved when meeting the standard conditions regarding interference to Chesterfield County Radio and Microwave Systems.

## **COUNTY AIRPORT**

Staff Contact: Jeremy Wilkinson (804-768-7700) wilkinsonj@chesterfield.gov

This request will have no impact on the County Airport.

## WATER AND WASTEWATER SYSTEMS

Staff Contact: Jamie Bland (804-751-4439) blandj@chesterfield.gov

The proposal's impacts on the County's utility system are detailed in the chart below:

Water and Wastewater Systems			
	Currently Size of Existing Line Connection Required by County Code?  Serviced?		
Water	Yes	8"	Yes
Wastewater	No	N/A	No

#### Additional Information:

The proposed request will not impact the public water and wastewater systems.

## **ENVIRONMENTAL**

Drainage, Erosion and Water Quality
Staff Contact: Doug Pritchard (804-748-1028) pritchardd@chesterfield.gov

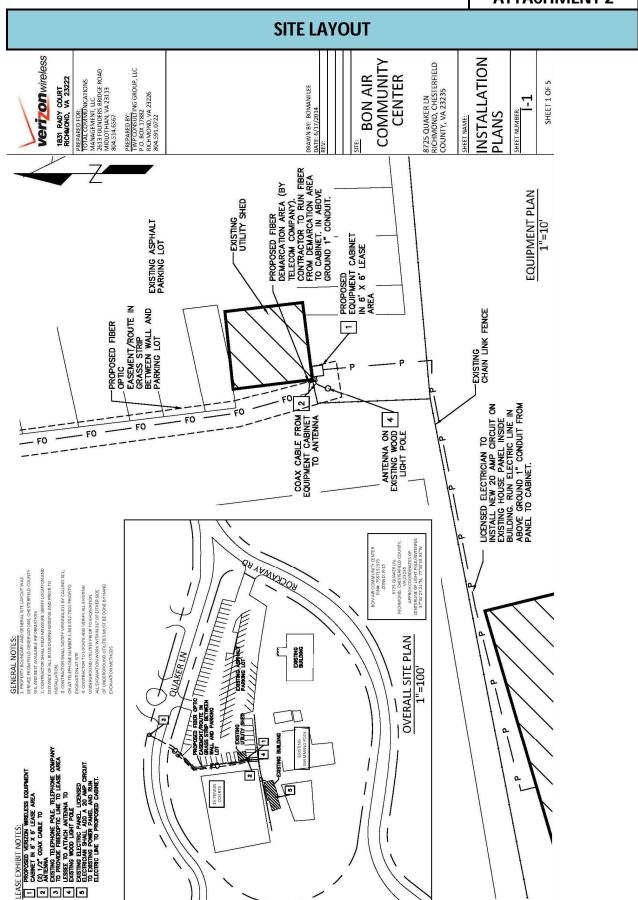
Environmental Engineering has no comment on this request.

CASE HISTORY		
Applicant Submittals		
10/31/14	Application submitted	
12/23/14	Proffers were submitted	
Community Meetings		
12/2/14	<ul> <li>Issues Discussed</li> <li>Midlothian Planning Commissioner, applicant, agent and staff attended this meeting at the Bon Air Community House</li> <li>Location, size and shape of antenna</li> </ul>	

#### **PROFFERED CONDITIONS**

- 1. There shall be no signs permitted to identify this use other than those required by applicable law and regulation. (P)
- 2. The color, design and lighting system for the communications tower (data node antenna) shall be as follows:
  - a. The communications tower shall be a small cell/data node structure mounted onto the top of utility (light) pole, generally as located on Attachment 2 and designed on Attachment 3.
  - b. The components of the small cell equipment shall have a durable finish color that matches the utility pole upon which it is located, as approved by the Planning Department. The finish color shall be maintained to address fading, flaking, or other finish issues, as determined by the Planning Department, to include matching any repainting of the utility structure upon which it is mounted.
  - c. The communications tower (data node antenna) shall not be lighted. (P)
- 3. Other than the data node antenna, any mechanical equipment shall comply with the Zoning Ordinance relative to screening of mechanical equipment in O, C and I Districts. (P)
  - (STAFF NOTE: The Zoning Ordinance requires the screening of mechanical equipment located on the building or ground from adjacent properties and public rights of way.)
- 4. Prior to use of this communications tower (data node antenna), the owner of the communications tower (data node antenna) shall obtain approval of the structural integrity by a registered professional engineer licensed in Virginia and a copy of the report filed with the Planning Department. (P)
- 5. The communications tower (data node antenna), located on top of a utility (light) pole, shall not exceed a height of 35 feet. (P)
- 6. At such time that the communications tower (data node antenna) ceases to be used for communications purposes for a period exceeding twelve (12) consecutive months, the owner/developer shall dismantle and remove the tower and all associated equipment from the property. (P)

## **ATTACHMENT 2**



### **TOWER ELEVATION Verizon**wireless COMMUNITY **NSTALLATION** 8725 QUAKER LN RICHMOND, CHESTERFIELD COUNTY, VA 23235 PREPARED BY: TWP CONSULTING GROUP, LLC 2613 FOUNDERS BRIDGE ROAD MIDLOTHIAN, VA 23113 804.514.6567 **BON AIR** CENTER 1831 RADY COURT RICHMOND, VA 23222 PREPARED FOR: TOTAL COMMUNICATIONS MANAGEMENT, LLC SHEET 2 OF 5 DRAWN BY: BOMANI LEE P.O. BOX 17882 RICHMOND, VA 23226 804:591.0722 DATE: 6/17/2014 REV: SHEET NUMBER: **PLANS** - ALCATEL-LUCENT 7310 MC-DBR3 CABINET. MOUNT TO EXISTING WALL WITH MANUFACTURE WALL PENETRATION UNIVERSAL POLE TOP EXTENSTION SYSTEM SC-BKT-TPE-BR ATTACHED TO WOOD POLE PER MANUFACTURE RECOMMENDATIONS RECOMMENDED WALL MOUNT BRACKETS. DETAIL **ELEVATION PLAN** -CYL-X7CAP-2-C-0\_750 GROUND BAR TYPICAL CADWELD & COMPRESSION CONNECTION DETAILS APPROX 36LF OF (2) 1/2" COAX FROM EQUIPMENT CABINET TO 7.TELECOM CONDUIT-CONTRACTOR SHALL FURNISH AND INSTALL A 2" TYPE-C PVC CONDUIT FROM THE TELEPHONE PROVIDER'S PEDESTAL OR CABNET TO THE EQUIPMENT SHELTER. TOP OF SMALL CELL ANTENNA BEECHROAL SERVICE—CONTRACTOR SHAL FURNISH AND INSTALL ONE OF 2" TYPE—C PVC CONDUIT FROM THE BUILDINKS ELECTRICAL DISCONNECT TO THE COMPOUND'S METER BASE. CONTRACTOR SHALL FURNISH AND INSTALL THE ELECTRICAL SERVICE FOR THE BUILDING, CONSISTING OF THE CONDUIT AND WIRE FOR A 200 AMP, SINGLE PHASE SYSTEM. POLE SERSINITY/GRO INSPECTION—24 HOUR NOTICE SHALL BE GNENTO VERIZOW WRELESS BEFORE THE COMPLETION OF THE EGG. TO ALLOW FOR MY OPEN TRENCH NOSPETUL OF THE LEGG. TO ALLOW FOR MY OF THE THE ELECTRODE ALLO PETULINIAL TEST IS REQUIRED WITH AN EXPECTED REJOING OF LESS THAN 5 ONLY. A RESERVINY TEST REPORT, WITH A COPY OF THE TEST INIT'S MOST RECENT CALLERATION CERTIFICATION IS REQUIRED. ABOVE GRADE BONDING CONDITIONS. THE CONTRACTOR SMALL VERIEY THAT THE REQUINDING SYSTELS IN PLACE AND SHALL INDICATE EXACT ROUTING OF THE GROUND SYSTEL ANAROD. WHERE PLANS INDICATE TO CONNECT TO CONSISTING REQUINDING SYSTEL CONTRACTOR SHALL CAREDLLY EXCANATE TO EXPOSE EXISTING REQUINDING SYSTELA WHILE PERFORMING MORE UNDICATE. ASE CARE TO MAINTAIN CONTINUITY OF EXISTING REQUINDING CONDUCTOR. USE CARE TO MAINTAIN CONTINUITY OF EXISTING REQUINDING SYSTELA WHILE PERFORMING WORK UNDER THIS CONTRACT. Z.EXISTING BELOW GRADE GROUNDING SYSTEM IS BASED ON PROTOTYPICAL GROUNDING SYSTEMS FOR CELLULAR SITES OF THIS NATURE AS WELL AS FIELD OBSERVATIONS OF TOP OF EX WOOD LIGHT HEIGHT = ±30' AGL ANTENNA HEIGHT = ±35' **GROUNDING DIAGRAM** ANTENNA A THO (2) GROUND LEADS FOR TILLE BASE OF THE TOWER. B. THO (2) GROUND LEADS FOR THE POWER BOTTONED BAR. C. ROLLON LEADS SHALL BE FORWING TO THE BASE OF POLY PHASER STANDS SHALL BE FORWING TO THE BASE OF POLY PHASER STRAPS AT EACH THE BROWNED FOR EACH WECKHANGEL. UNTIL E. GROUND LEADS SHALL BE FORWING BARS THAT IS PROVIDED. TO ACH AND THE SHALL BE FORWING FOR EACH MECHANICAL. UNTIL F. GROUND LEADS SHALL BE FROWING FOR EACH CORNER OF THE BUILDING AND THO CASTER LEADS. H. OR (1) GROUND LEAD SHALL BE PROVIDED FOR THE ELECTRICAL DISCONNECT AT THE BUILDING. POL YPHASER FOR GROUND BAR LOCATED OUTDOORS, ON-CRADE ONLY, EXOTHERMICALLY WELD A 2 AND BARE THING DOPPER CONDUCTOR TO GROUND BAR AND EXOTHERMICALLY WELD TO BURED REGOUND CONDUCTOR. 1. EGR—(EXTERIOR GROUND RING) THE BUILDING GROUNDING SYSTEM SHALL BE INSTALLED BY TOTINGATOR, GROUND LEADS OF SUFFICIENT LENGTH SHALL BE PROVIDED FOR THE FOLLOWING. 4. GROUND RING-CONTRACTOR SHALL INSTALL A GROUND RING PER VERZION WIRELESS SPECIFICATIONS. THE GROUND RING MUST BE INSTALLED TO A DEPTH OF 30°, BY GROUND RING MUST BE INSTALLED TO A DEPTH OF 30°, BY GROUND RING MOST SHALL BY A READ FROM THE EGR ARE TO BE SEENED SCHORBANG WELLOS FROM THE EGR ARE TO BE SEENED 3. POLYPHASER-CONTRACTOR SHALL ATTACH THE POLYPHASER GROUND STRAPS TO THE BUILDING AND CONNECT THEIR OT THE EXTENCE GROUND INNO PER SPECIFICATIONS. VERTICAN WIRELESS SHALL FURNISH HIE POL. YPHASER GROUND STRAPS 2. USE PERMANENT MARKER TO LABEL THE WHOLE BAR AS "P" WITH 1" HIGH LETTERS. 4. GROUND BARS SHALL BE TINNED COPPER AND SHALL BE ENGRAVED OR IMPRESSED STOLEA-LOO NOT RECOFFEE, AND/OR PROPERTY OF V.CM., ETCHED ON STAMPED WITH SITE FA LOCATION AND SECURED WITH ARTH-THEFT HARDWARE. 4"x1/4" SOLID COPPER BAR TWO-HOLE LONG BARREL COMPRESSON LUG WITH 2 AWG STRANDED COPPER CONDUCTOR AND OWED HIW INSULATION TO RECOMD BAR. ROUTE CONDUCTOR 1 PACIFICABLE TO EXISTING BUILDING GROUNDING SYSTEM. 1. ONE (1) GROUND LEAD SHALL BE PROVIDED FOR THE METER BASE. INSULATOR LENGTH AS REQUIRED -GROUND BAR DETAIL NOTES: 6

GROUND NOTES:

# **ATTACHMENT 4**

# **PHOTO SIMULATION**

